

FIG. 1

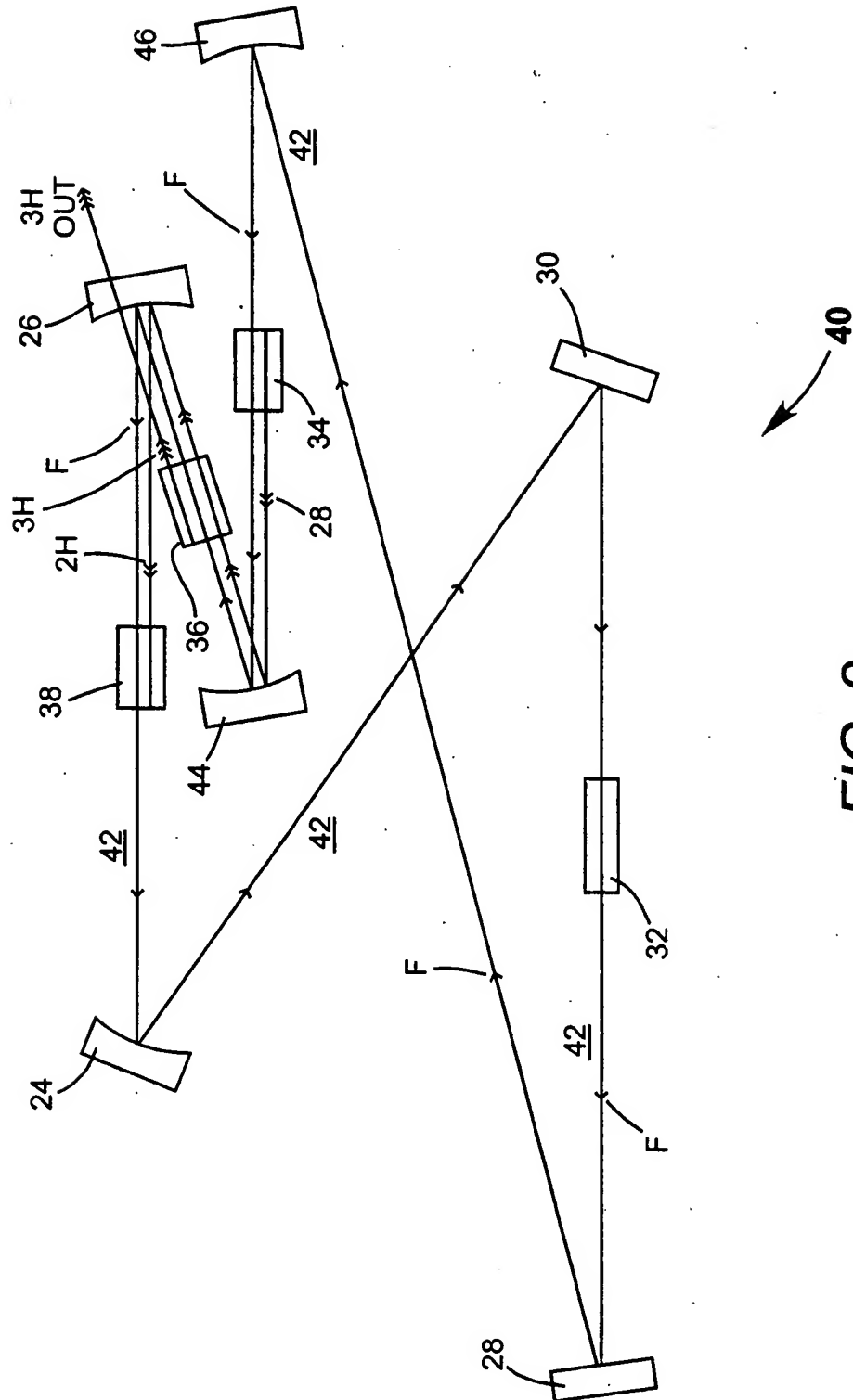


FIG. 2



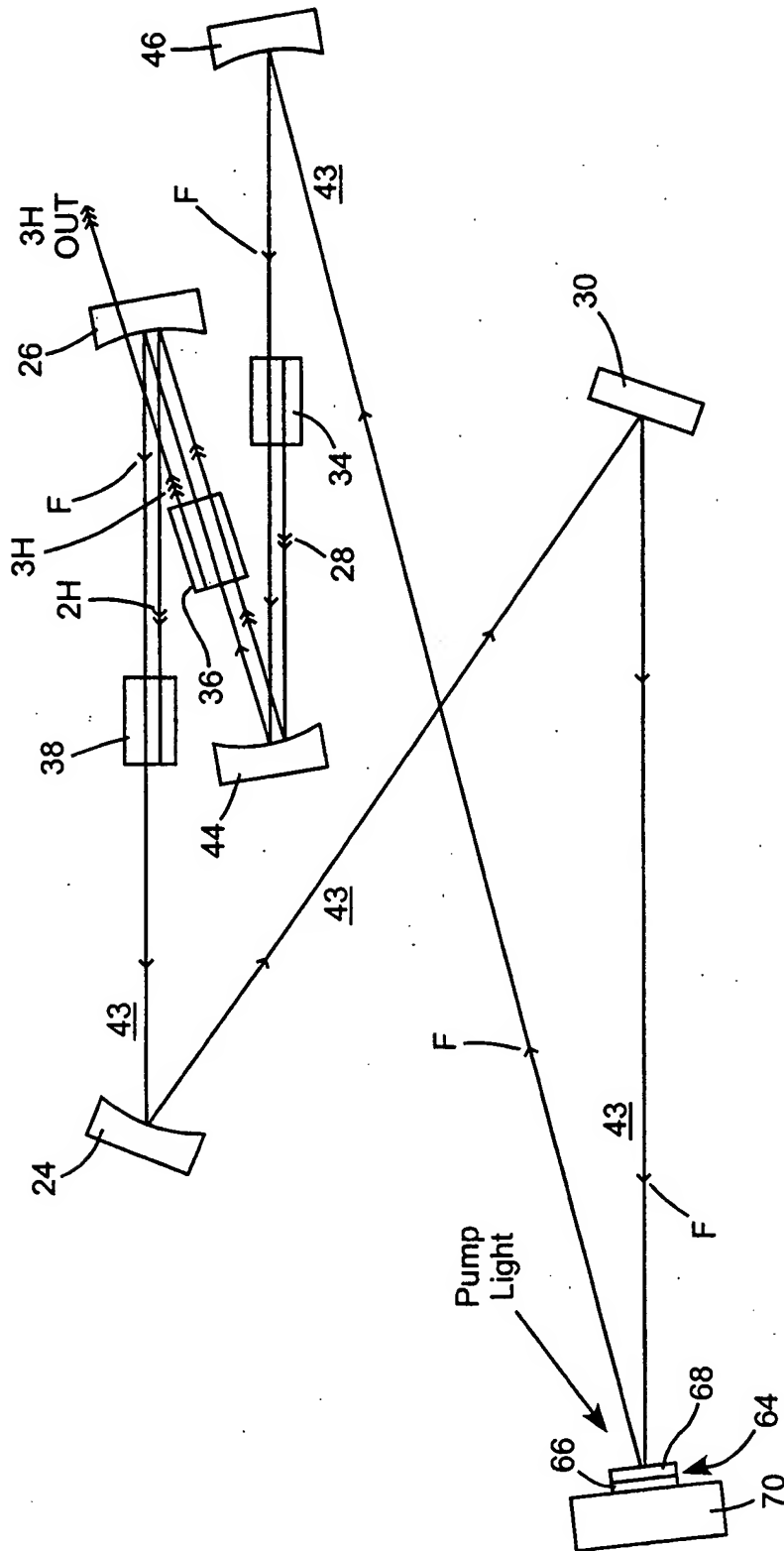


FIG. 4

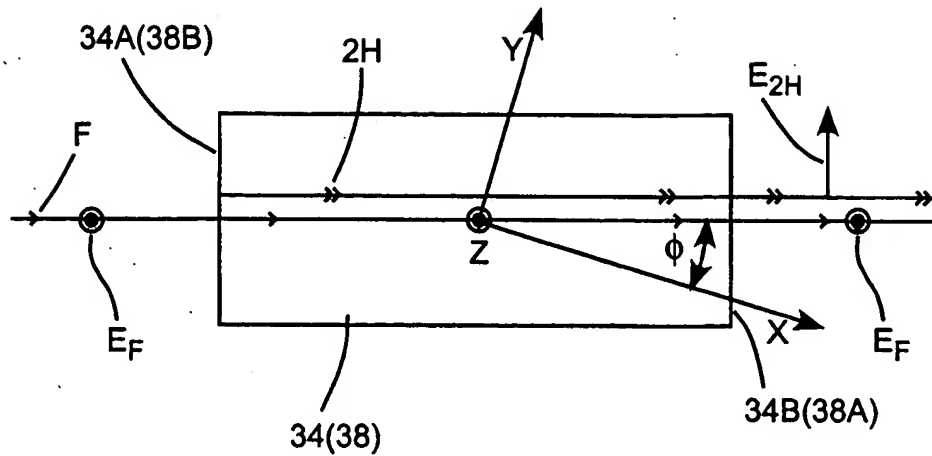


FIG. 5

Gain Medium	Wave-length (nm)	Crystal Temp. (°C)	Cut Angle ϕ	Cut Angle θ	Spot Size (μm)	Length (mm)	Doubling Efficiency α (W^{-1})
Nd:YVO ₄	1064	50	10.1	90.0	40	20	$1.25 \cdot 10^{-4}$
Nd:YVO ₄	1064	143	0.0	90.0	40	20	$2.54 \cdot 10^{-4}$
OPS	976	50	16.5	90.0	40	20	$0.96 \cdot 10^{-4}$
OPS	976	298	0.0	90.0	40	20	$3.00 \cdot 10^{-4}$

FIG. 6

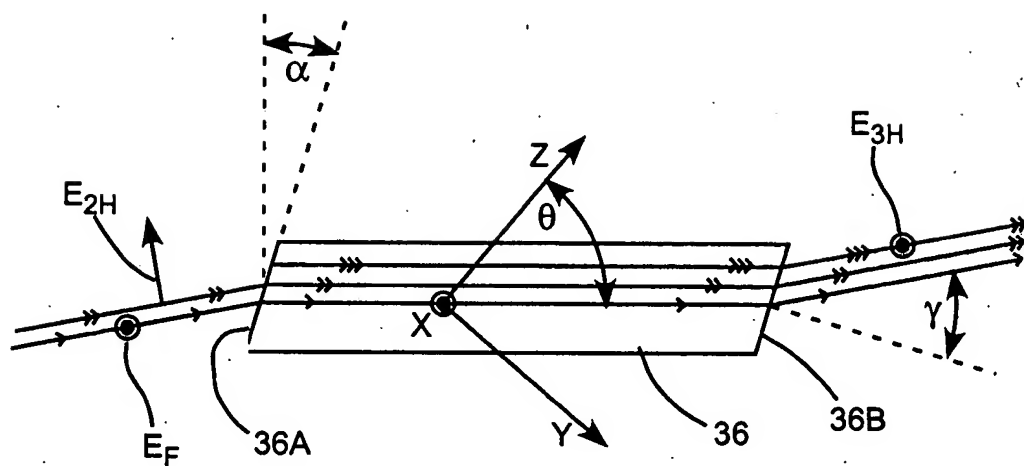


FIG. 7

Gain Medium	Wave-length (nm)	Inc. Angle γ	Wedge Angle α	Cut Angle ϕ	Cut Angle θ	Spot Size (μm)	Length (mm)	Tripling Efficiency $\alpha (W^{-1})$
Nd:YVO ₄	1064	27.7	17.3	90.0	43.0	40	20	$3.79 \cdot 10^{-4}$
OPS	976	16.9	10.7	90.0	67.7	40	20	$1.79 \cdot 10^{-4}$

FIG. 8

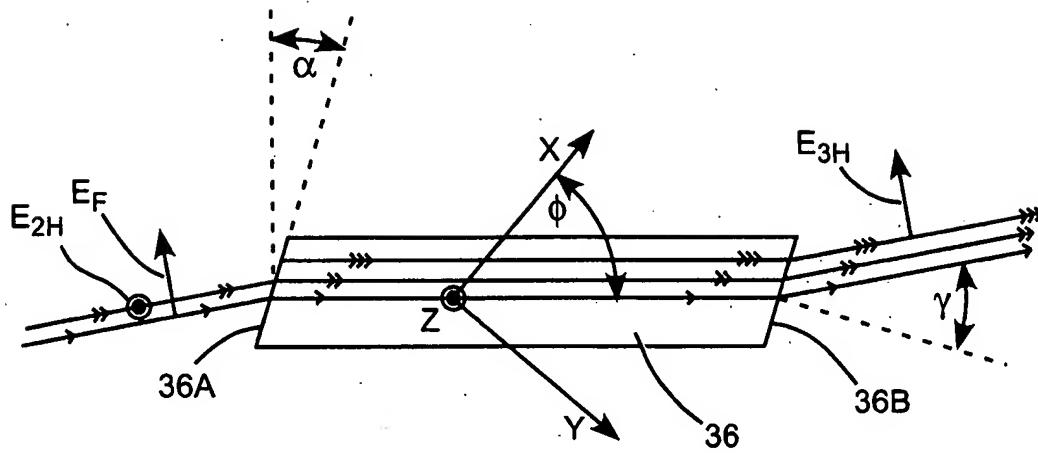


FIG. 9

Gain Medium	Wave-length (nm)	Inc. Angle γ	Wedge Angle α	Cut Angle ϕ	Cut Angle θ	Spot Size (μm)	Length (mm)	Tripling Efficiency α (W^{-1})
Nd:YVO ₄	1064	30.7	18.7	40.5	90.0	40	20	$11.3 \cdot 10^{-4}$
OPS	976	24.6	15.1	58.0	90.0	40	20	$12.6 \cdot 10^{-4}$

FIG. 10

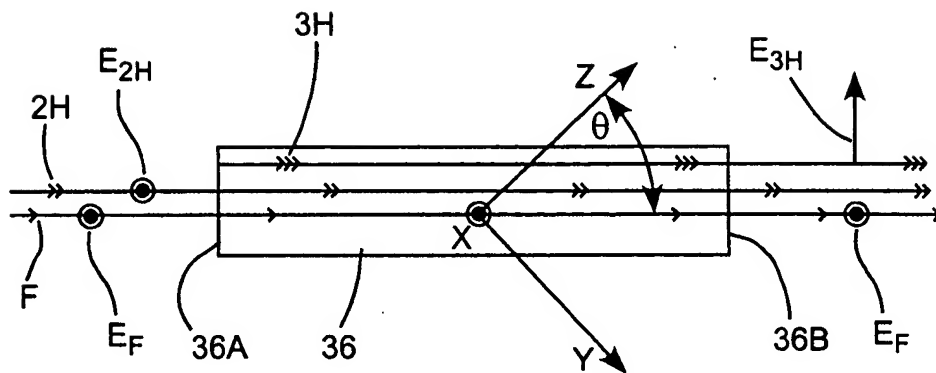


FIG. 11

Gain Medium	Wave-length (nm)	Cut Angle ϕ	Cut Angle θ	Spot Size (μm)	Length (mm)	Tripling Efficiency α (W^{-1})
Nd:YVO ₄	1064	90.0	$180.0 - 31.3 = 148.7$	40	20	$5.94 \cdot 10^{-4}$
OPS	976	90.0	$180.0 - 34.4 = 145.6$	40	20	$6.41 \cdot 10^{-4}$

FIG. 12

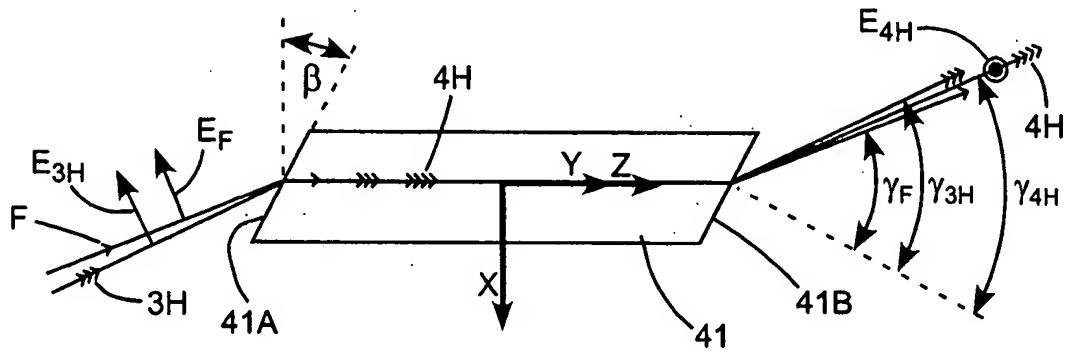


FIG. 13A

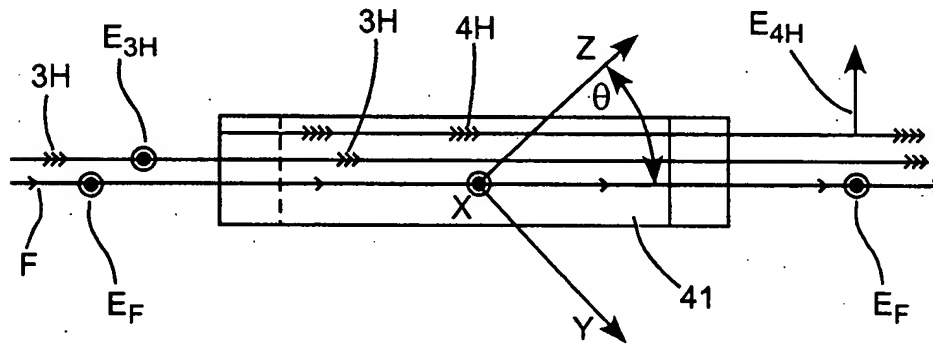


FIG. 13B

Gain Medium	Wave-length (nm)	Inc. Angle γ_F	Inc. Angle γ_{3H}	Inc. Angle γ_{4H}	Wedge Angle β	Cut Angle ϕ	Cut Angle θ	Spot Size (μm)	Length (mm)	Quadrupling Efficiency α (W^{-1})
Nd:YVO ₄	1064	58.85	61.91	61.12	31.15	90.0	$180 - 40.30 = 139.70$	40	20	$2.97 \cdot 10^{-4}$
OPS	976	58.87	62.58	61.61	31.12	90.0	$180 - 45.43 = 134.57$	40	20	$2.80 \cdot 10^{-4}$

FIG. 14

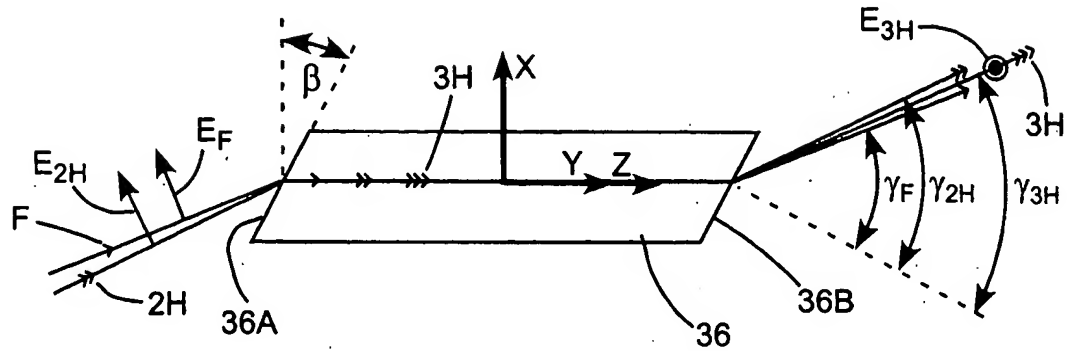


FIG. 15A

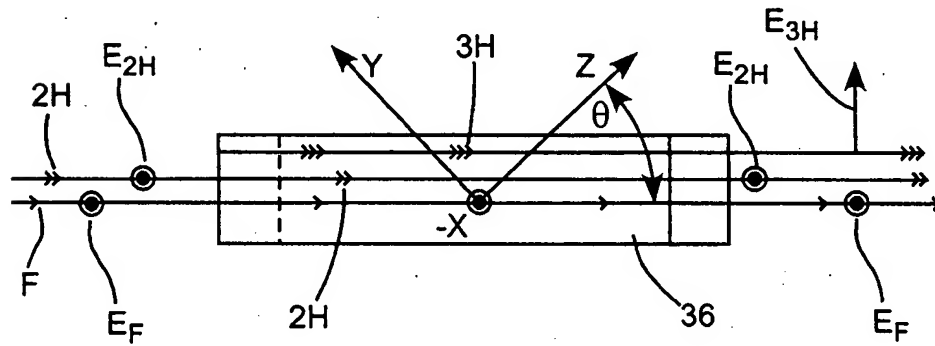


FIG. 15B

Gain Medium	Wave-length (nm)	Inc. Angle γ_F	Inc. Angle γ_{3H}	Inc. Angle γ_{4H}	Wedge Angle β	Cut Angle ϕ	Cut Angle θ	Spot Size (μm)	Length (mm)	Tripling Efficiency α (W^{-1})
Nd:YVO ₄	1064	58.8	60.0	59.6	31.20	-90.0	$180 - 31.3 = 148.7$	40	20	$2.80 \cdot 10^{-4}$

FIG. 16

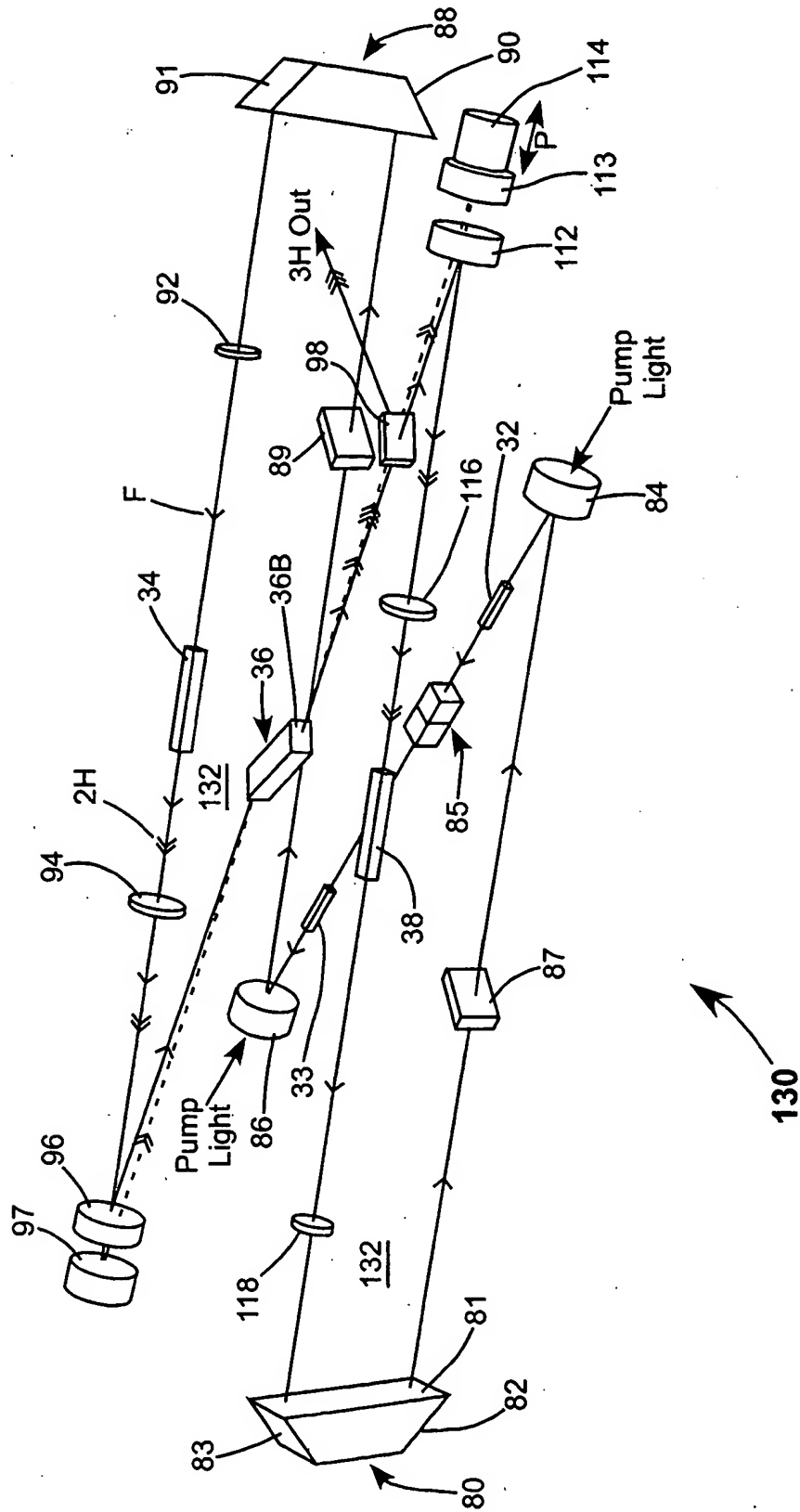


FIG. 17

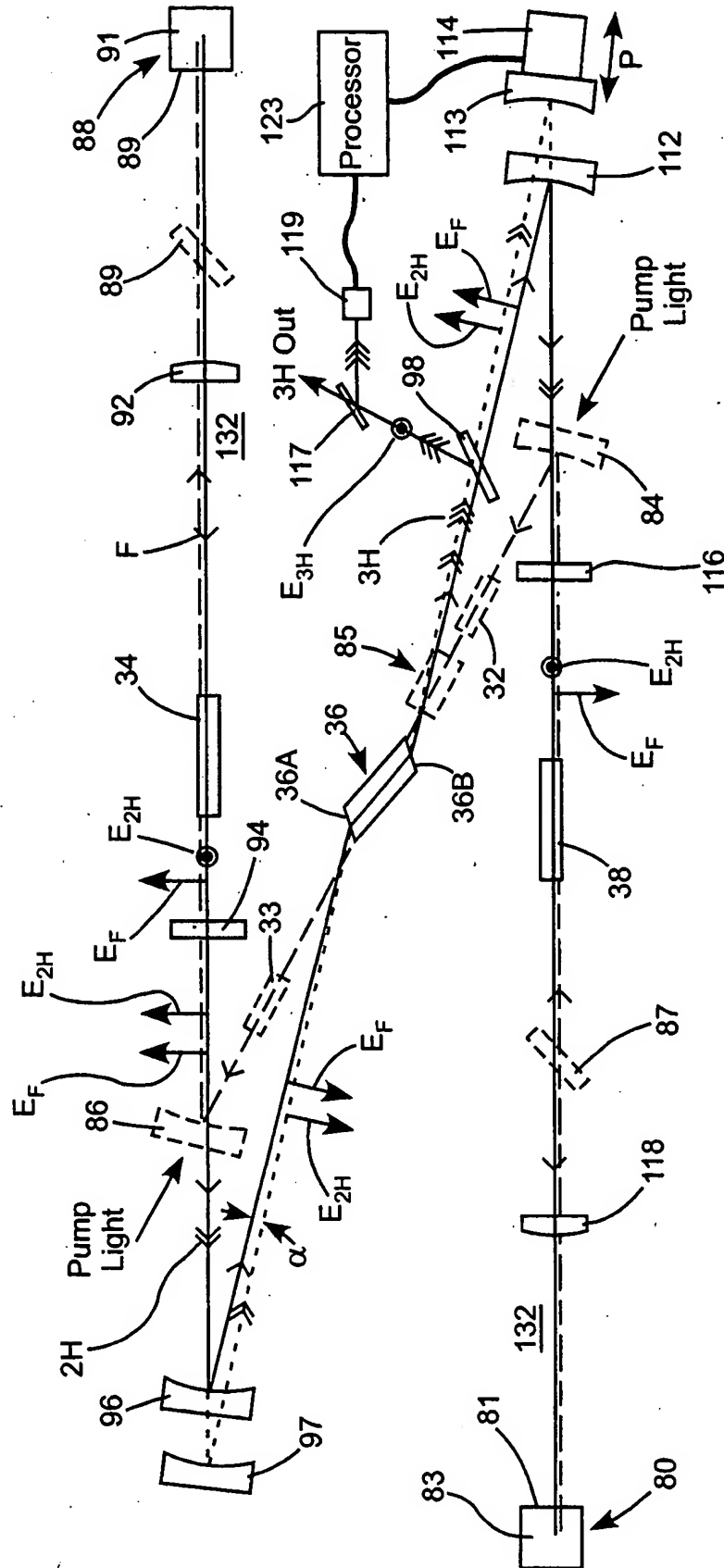


FIG. 18

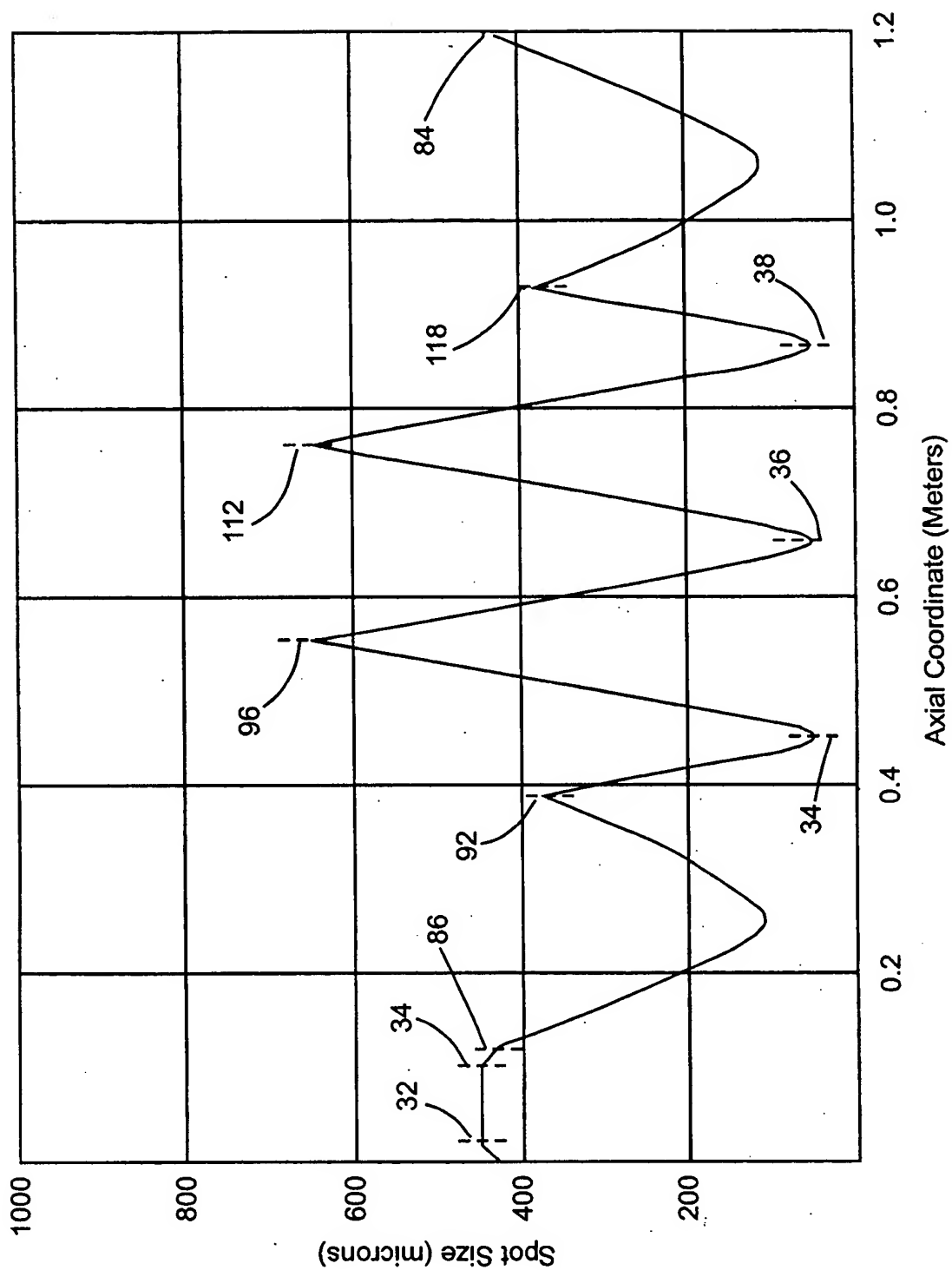


FIG. 19

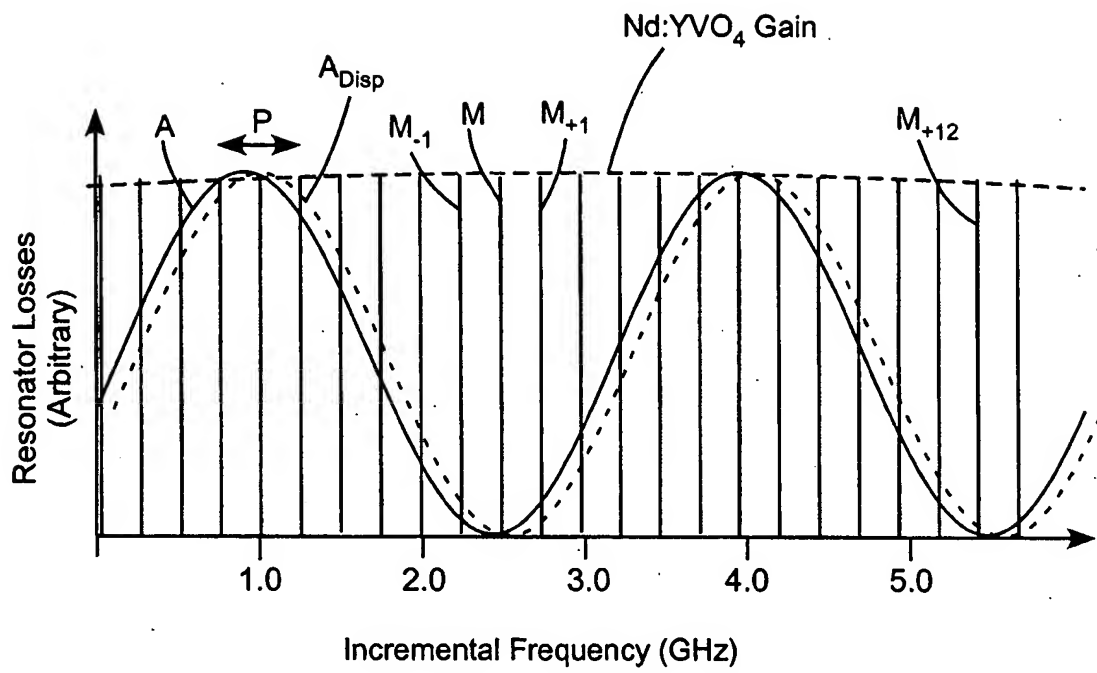
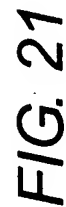
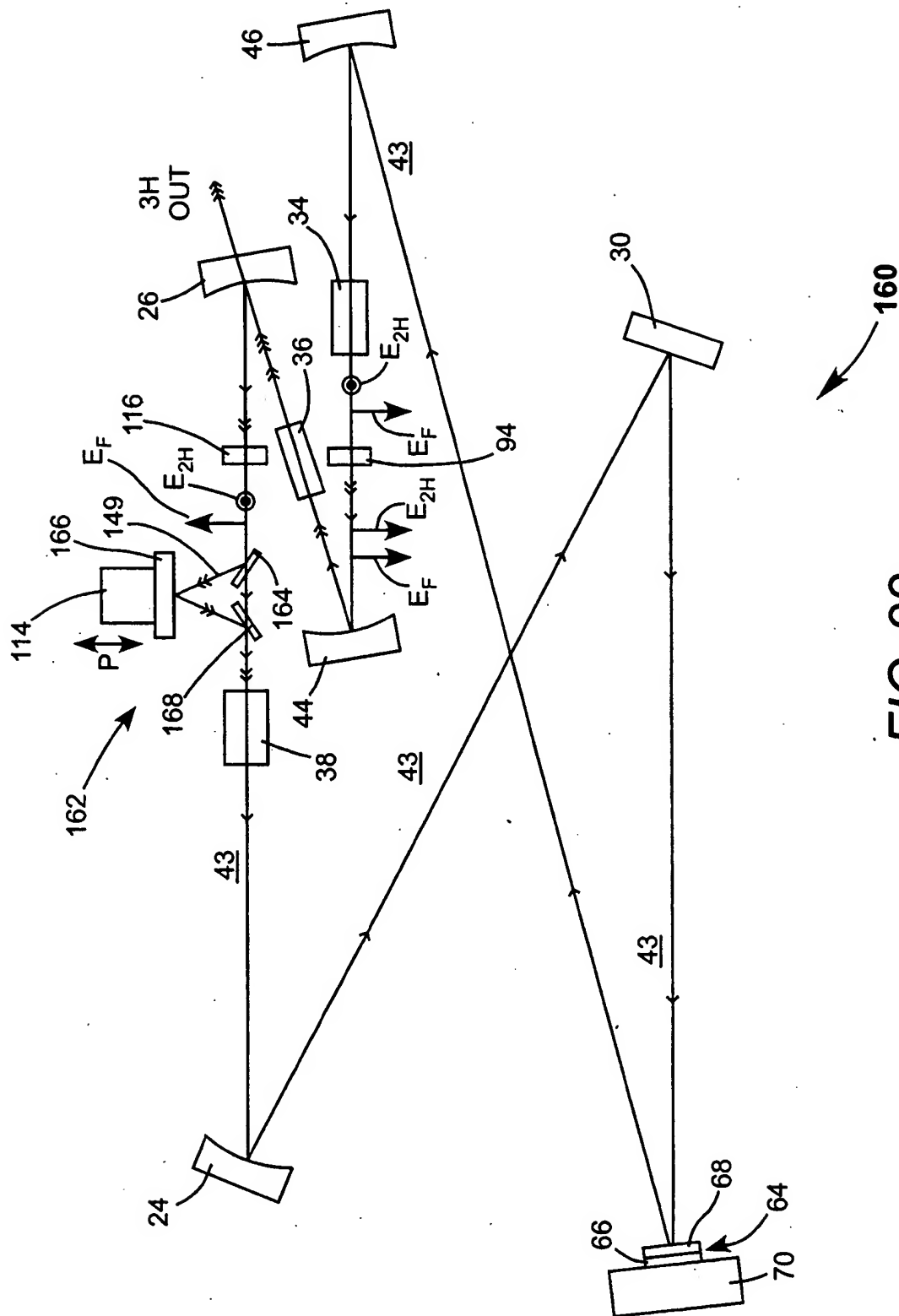


FIG. 20









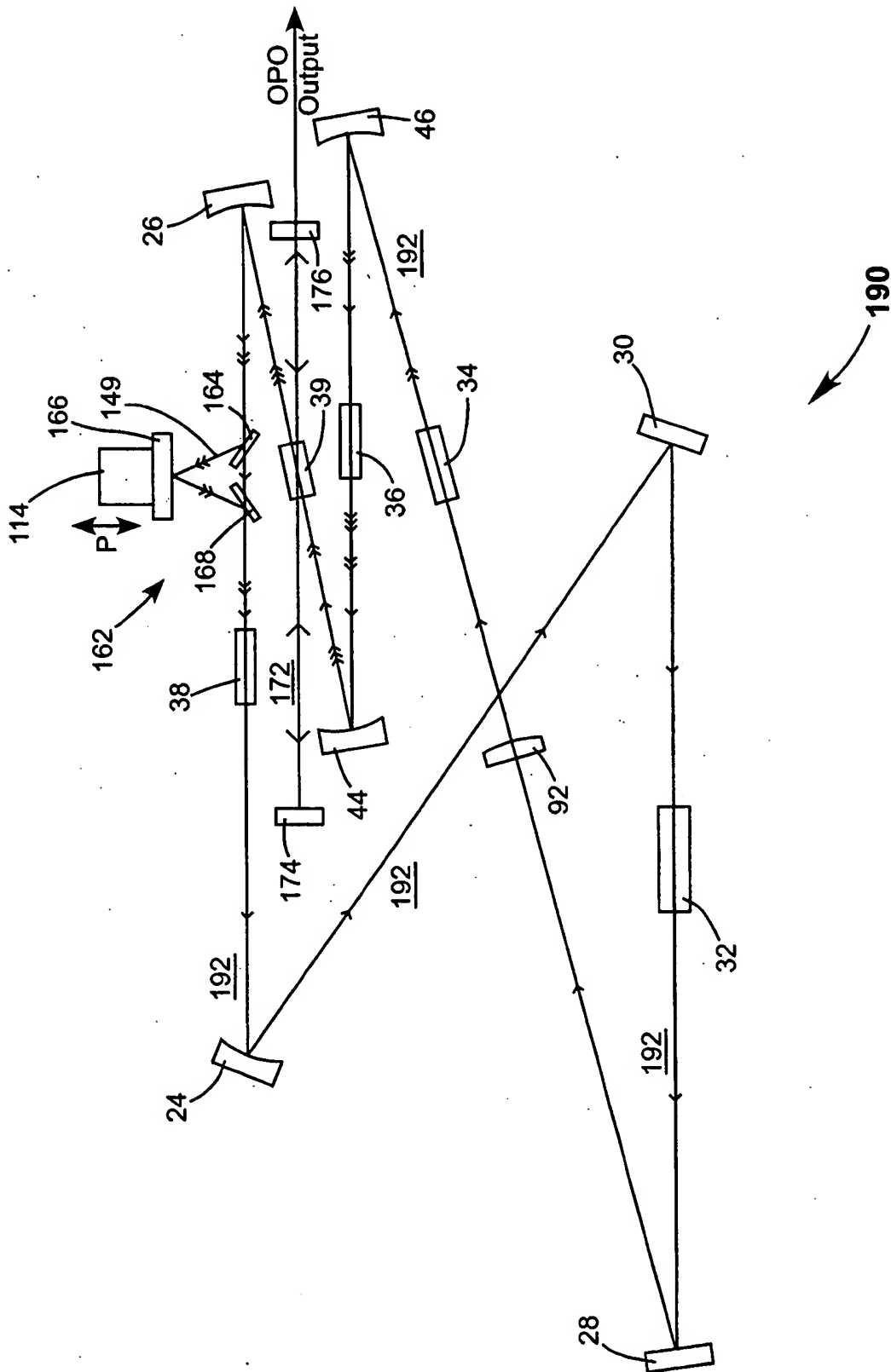


FIG. 25